TOPFIELD

The User's Manual

Personal Video Recorder

TF5010PVR

TF5510PVR

-Personal Video Recorder

Please read this User's Manual carefully.
The menu structure and specification can be changed without notice.

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WARNING

Please read the following recommended safety precautions carefully for your safety.

MAINS SUPPLY : 90-250V AC 50/60 Hz.

OVERLOADING : Do not overload wall outlets, extension cords or adapters as these can result in fire or electrical shock.

LIQUIDS : Keep liquids away from the PVR. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

FLAME SOURCES : Do not place naked flame sources, such as lighted candles, on the PVR or near the PVR.

SMALL OBJECTS : Coins or other small objects must be kept away from the PVR as they can fall through the ventilation slots of the PVR and cause serious damage.

CLEANING : Disconnect the PVR from the wall socket before cleaning it. Use a dry cloth lightly dampened(no solvents) to clean the exterior of the PVR.

VENTILATION : Do not block the PVR's ventilation slots. Ensure that a free airflow is maintained around the PVR.
Never stand the PVR on soft furnishings or carpets. Do not use or store the PVR where it is exposed to direct sunlight or near a heater.
Never stack other electronic equipment on top of the PVR.

ATTACHMENTS : Do not use any attachments that are not recommended as these may cause hazards or damage the equipment.

CONNECTION TO THE SATELLITE DISH LNB : Disconnect the PVR from the mains before connecting or disconnecting the cable from the satellite dish. Failure to do so can damage the LNB.

WARNING

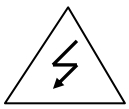
SERVICING : Do not attempt to service this product by yourself. Do not remove the cover. Refer all serving to qualified service agents.

LIGHTNING : For protection we recommend that you connect the PVR via an external surge protection device. Disconnect the antenna cable from PVR during lighting storms.

EARTHING : The antenna cable **must be earthed**.

LOCATION : Locate the PVR indoor place properly to prevent lightening, raining and direct sunlight. Do not allow the PVR to be exposed to hot, cold or humid conditions.

RESPONSIBILITY : Do not use the PVR and its contents for illegal purpose. We are not responsible for any kind of illegal use.
Do not use the PVR to backup important data. It can be deleted.
We are not responsible for any kind of problems caused by TAP application programs.



CAUTION

RISK ELECTRIC SHOCK
DO NOT OPEN

This symbol indicates “dangerous voltage” inside the product that presents a risk of electric shock or personal injury.

This symbol indicates important instructions accompanying the product.

CAUTION : TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

Warning

Please do not insert metal or alien substance into the slots for the Modules and Cards.
In doing so can cause damage to the PVR and reduce its life span.

INTRODUCTION

Thank you for purchasing the Personal Video Recorder (PVR).
This PVR is fully compliant with the international DVB standard and thus transmits digital images, sounds, information guides and teletext directly to your TV through the satellite broadcasting.
Now you can comfortably see and receive digitally transmitted music, news, movie and sports satellite broadcasts in your office or at your home. The PVR records and plays back satellite broadcasts. You can enjoy interesting games embedded in PVR.
In the Channel Search section, both the automatic channel search method and the manual search mode are provided. Also it supports DiSEqC 1.0, 1.1, 1.2 and USALS(DiSEqC 1.3), enabling you to move your antenna in order to focus preferred satellite. You can save up to 5000 TV and Radio channels and work around with the Favorite, Lock, Delete, Move and Sort functions.
The menu is very modern and supports multiple languages. All functions can be carried out using the remote control and some of the functions can also be carried out using the front panel. The PVR is easy to use and adaptable for future advances. Please be aware that new software may change the functions of the PVR.
If you have any difficulties concerning the operation of your PVR, please refer to the relevant section of this manual, including the 'Troubleshooting'. This Manual will provide you with useful information on using the PVR.

CONTENTS

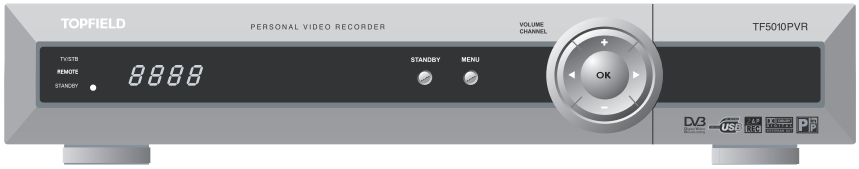
Please ensure that the following items are included with the PVR.
1) Remote control unit
2) Batteries (size AAA)
3) User's Guide (this document)

FEATURES

- 2 Common Interfaces for CONAX, CRYPTOWORKS, IRDETO, NAGRAVISION, SECA & VIACCESS
- MPEG-2 Digital and fully DVB compliant
- 2 Tuners
- 5000 channels (TV and Radio) programmable
- Channel switching time less than 1 second
- Channel list editing
- Favorite channel list editing
- True-color On-Screen Display (OSD)
- Full Picture In Graphic (PIG) function
- Electronic Program Guide (EPG) for on screen channel information
- Subtitle supported
- Teletext supported by VBI insertion and software emulation
- Parental lock facility by channel and program event
- Program and Channel information transfer from receiver to receiver
- Exciting games embedded
- S/PDIF for digital audio or Dolby AC-3 bitstream output
- Recording capacity : 44 hours for 4Mbps stream with 80GB HDD
- Powerful trick mode supported
- Playback of the selected region repeatedly
- Dual Decoding(PIP)
- Dual Recording and Playback simultaneously
- Time-shifting
- Dual recording simultaneously
- USB 2.0 supported for fast PC interface
- MP3 (MPEG-1 Layer 3) decoding
- DiSEqC 1.0, 1.1, 1.2 and USALS(DiSEqC 1.3)
- Conax conditional access …….. TF5510PVR only

FRONT/ REAR PANELS

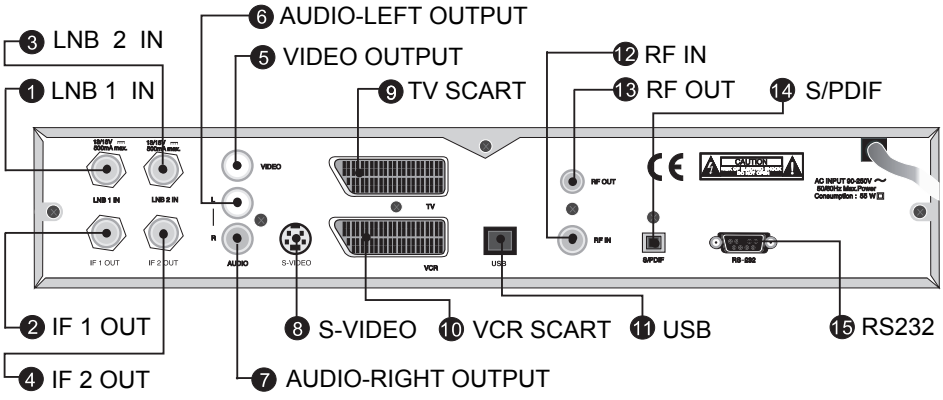
1)FRONT PANEL



-POWER
The power button of PVR (ON / Stand by)
-LED
T V/STB
REMOTE
STAND BY
-DISPLAY
During the STANDBY mode, the current time is displayed.
When the power is ON, the current status is displayed(TV/Radio/Menu).

-CHANNEL
Change the channels
-VOLUME
Change audio volume level
-MENU
Display the Menu on screen.
-OK
Display channel List on screen.
Select an item in the menu.

2)REAR PANEL



FRONT/ REAR PANELS

1. LNB 1 IN
- Connect the satellite antenna cable

2. IF 1 Out
- Use it to connect to another STB or LNB 2 IN

3. LNB 2 IN
- Connect the satellite antenna cable

4. IF 2 Out
- Use it to connect to another STB

5. VIDEO OUTPUT
- Video output. (YELLOW)

6. AUDIO-LEFT OUTPUT
- Audio output. (WHITE)

7. AUDIO-RIGHT OUTPUT
- Audio output. (RED)

8. S-VIDEO
- S-Video output. Connect the S-Video input of your TV.

9. TV SCART
- Connect the TV SCART

10. VCR SCART
- Connect the VCR SCART

11. USB port
- Connect USB port of PC

12. RF IN
- Connect the TV antenna

13. RF OUT
- Connect the TV RF IN

14. S/PDIF
- Optical output for Digital Audio

15. RS232
- Upgrade the PVR data & software

REMOTE CONTROL UNIT(RCU)

1 . POWER Button ( )
- Switch the PVR between Operation and Standby mode.

2 . MUTE Button ( )
- Enable / Disable the Audio.

3 . UHF Button ( )
- Display and alter the UHF setting in menu.

4 . TV/STB Button ( )
- Change the terrestrial TV and STB mode.

5 . SLEEP Button ( )
- Display the sleep time. At the sleep time, the power is automatically turned OFF and the PVR goes to the STANDBY mode.

6 . Numeric Buttons (0 ~ 9)
- Select the TV or Radio service channels and menu options.

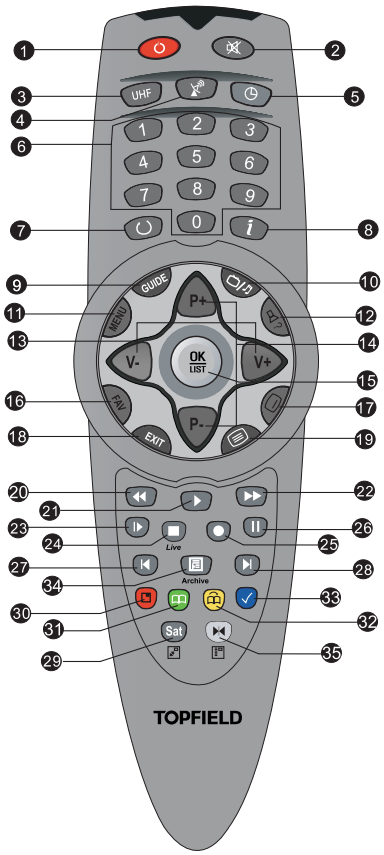
7 . RECALL Button ( )
- Select the previously viewed channel.

8 . INFO Button ( )
- Display the program information box on the Screen and remove it.
- Display the extended event information when the information box is displayed.

9 . GUIDE Button ( )
- Display the EPG on screen when available.
- Remove EPG when EPG is displayed.

10 . TV/ Radio Button ( )
- Select the TV/Radio mode.

11 . MENU Button ( )
- Display the Menu on screen or return to previous menu from submenu.



12 . SOUND Button ( )
- Select Sound Track and LEFT / RIGHT / MONO / STEREO sound.
- Select the multifeed channel if multifeed is available.

13 . V+/V- Buttons ( )
- Adjust the volume (Increase / Decrease).
- Change the value of the selected item in Menu.

14 . P+/P- Buttons ( )
- Service up or down through the available services.
- Move the selection bar in Menu.

15 . OK Button ( )
- Display Channel List on screen.
- Select an item in the menu.

16 . FAV Button ( )
- Display the favorite channel list.

17 . SUBTITLE Button ( )
- Activate the subtitle selection window. Select the subtitle language in the list.

18 . EXIT Button ( )
- Return to the previous menu and the screen.

19 . TELETEXT Button ( )
- Enable the teletext with software emulation.

20 . Button
- Fast rewind when the progress bar is displayed.
- Start reverse playback.
- Change the speed of reverse playback.

21 . Button
- Display the progress bar of time shifting or playback when no progress bar is displayed.
- Start playback with normal speed.
- Return to normal speed from trick mode.

22 . Button
- Start fast forward or fast motion playback.
- Change the speed of forward playback.

23 . Button
- Start slow motion playback.
- Change the speed of slow motion playback.

24 . Button
- Stop time shifting, playback or recording.

25 . Button
- Start recording.

26 . Button
- Pause the playback and live picture.

27 . Button
- Move the position of Sub-picture at the PIP by counter clockwise.

28 . Button
- Move the position of Sub-picture at the PIP by clockwise.

29 . ( ) Button
- Exchange main-picture with sub-picture at the PIP.
- Display the satellite list at normal picture and at service list.

30 . (Red) Button
- Enable, Resize and Disable the Sub-picture.

31 . Button
- Make a bookmark while playback or time shift.

32 . Button
- Go to the bookmarked position.

33 . Button
- Go to backward by 10 seconds per each pressing of this button.

34 . Button
- Display file list. (Recorded service list, MP3 file list, Application file list)

35 . ( )Button
- Select the period for repeated playback or cut out.
- Display the channel list of Sub-picture.
- Select a play mode in MP3 play.

* Button
- Change 4:3 Center Extract -> 4:3 Center box -> 16:9 Full srceen.
-

* Buttons

Above buttons is a kind of function key. So, the function in each OSD Screen can be referred in each instruction message in help window.

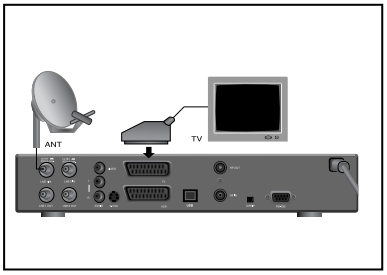
INSTALLATION (Connection)

First, connect both the satellite antenna and the TV to the PVR.

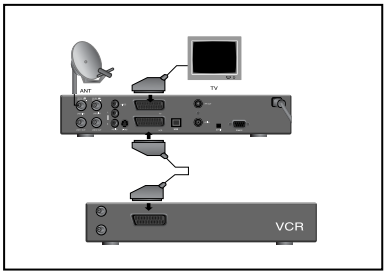
- There are some of the most common ways to connect the equipment in this manual.
- There are several ways of connecting the PVR to the existing Audio/TV system. We recommend one of the following setups.
- If you have problems with your connections and need help, contact your dealer or service provider.

Connection to TV, VCR and Hi-Fi

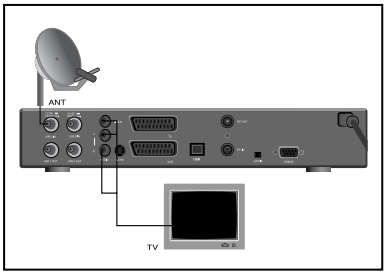
1) Connection to the TV with the SCART Cable.
Connect one end of the SCART cable to the TV SCART socket on the PVR and the other end to a SCART socket on the TV.



2) Connection to the VCR with a SCART Cable.
Connect one end of the SCART cable to the VCR SCART socket on the PVR and the other end to a SCART socket on the VCR.



3) Connection to the TV with the CINCH Cable.
Connect one end (3 connectors) of the CINCH cable to the AUDIO-RIGHT (red), AUDIO-LEFT (white) and the VIDEO output (yellow) socket on the PVR.
Connect the other end (3 connectors) to the AUDIO-RIGHT (red), AUDIO-LEFT(white) and the VIDEO input (yellow) socket on the TV or Hi-Fi.

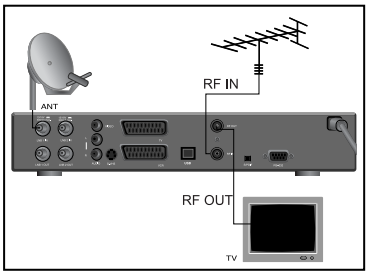


4) Connection to the TV using the RF cable.

Connect a terrestrial antenna to RF IN socket on the PVR.

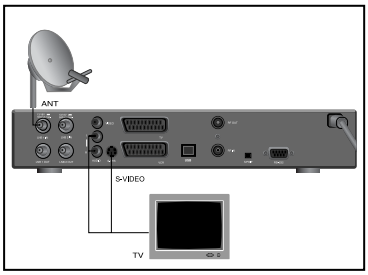
Connect one end of the RF cable to the RF OUT socket on the PVR.

Connect the other end to the ANT IN socket on the TV.



5) Connection to the TV using the S-VIDEO.

Connect one end of the S-VIDEO cable to the S-VIDEO socket on the PVR and the other end to a S-VIDEO socket on the TV.

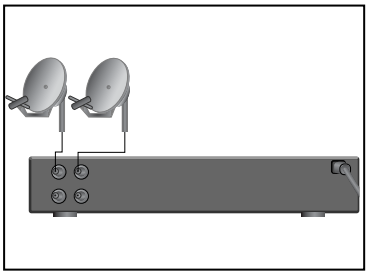


Connection to the Antenna.

We recommend one of the following installation diagrams because of the LNB specifications for selecting RF signal band by DC voltage and 22Khz tone.
If the PVR is installed with separated connection type, there is no restriction for zapping while recording.

1) Installing the PVR with two separated Antennas.

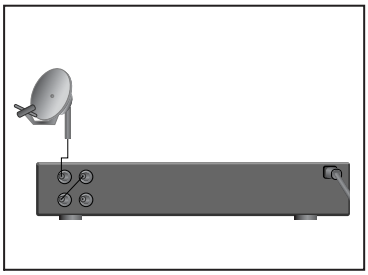
The **Connection Type** in **LNB setting** menu should be set to **Separated**.



2) Installing the PVR with one Antenna.

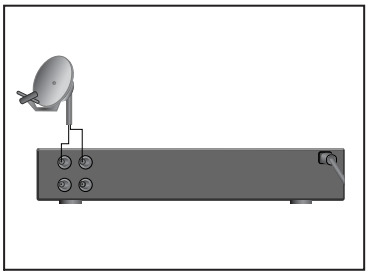
The **Connection Type** in **LNB setting** menu should be set to **Loop Through**.

Tuner 1 and 2 can receive the RF signal of the same polarity and the same band.



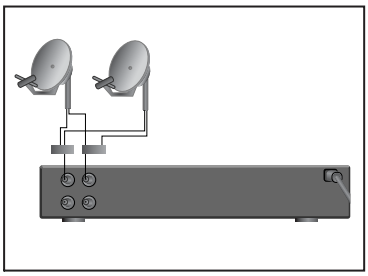
3) Installing the PVR with Twin LNB Antenna.

The **Connection Type** in **LNB setting** menu should be set to **Separated**.



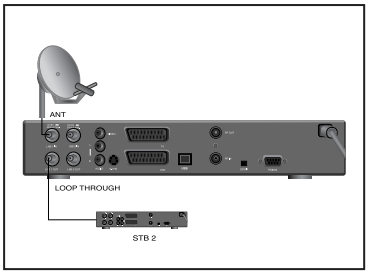
4) Installing the PVR with two separated Twin LNB Antennas and DiSEqC switches.

The **Connection Type** in **LNB setting** menu should be set to **Separated**.



Connection to the other Satellite Receiver.

Connect the satellite antenna cable to the LNB IN socket on the PVR. With other connector, connect the IF OUT socket on the PVR and the LNB IN socket of the other PVR or STB.



* Remarks

LNB power will not be bypassed from IF OUT to LNB IN. Only IF signal will be bypassed to IF OUT from LNB IN.

GETTING STARTED

Press the Power ( ) button to operate the PVR from the STANDBY mode. Now, the Info Box will appear for a given time and disappear. By pressing button, the Info Box will remain on the screen. The display time of the Info Box is adjustable in the **System Setting** menu of the **Main** menu.

IMPORTANT: Before taking charge of your new PVR, some important technical settings are essential.

- First, press the **MENU** ( ) button on the RCU to make the Main Menu appear.
- Go to the **LNB Setting** item in the **Installation** menu and press button.
- Choose the right parameters for **Satellite Name**, **Tuner Select**, **Connection Type**, **LNB Frequency, LNB Power, 22KHz, DiSEqC 1.1** and **DiSEqC 1.0.**
- Set the **Motorized DiSEqC1.2** and the **USALS** items according to your antenna, LNB and satellite settings. If the right Satellite Name and LNB Frequency were not found in the list, call the dealer for satellite information.
- Then, press button at **Channel Search** item and go to the **Channel Search** menu.
- Set the **Search Mode** to the **Auto**. (**Manual** , **Advanced** or **SMATV Search**)
- Select the **Start Search...** item and press button.
- The search procedure will take a while. Press button when the searching process is finished to confirm and save the new channel list.
- For further information, please refer to the **LNB Setting** part of MENU OPERATIONS in this manual.

MENU OPERATIONS

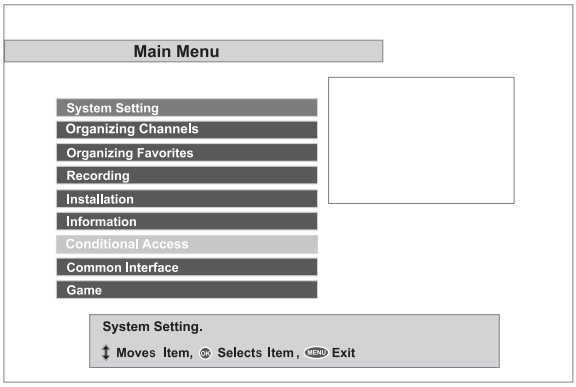
Now this chapter assumes that the PVR system has been installed correctly, meaning:

- The satellite antenna for the PVR has been installed, connected to the PVR.
- The PVR is connected to the TV.
- The RCU has batteries and ready to control the PVR.

If the PVR has not been installed or connected properly, please refer to the **INSTALLATION** menu on this manual.

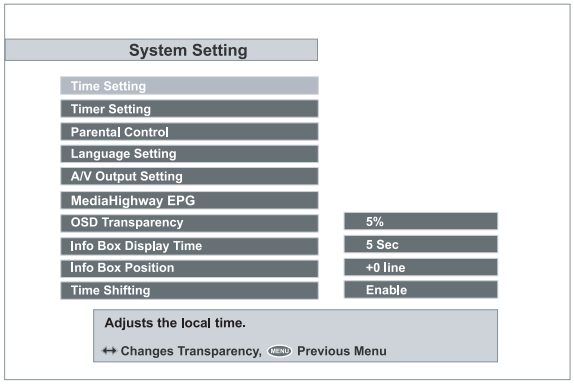
Many of the functions of the PVR are available from the **Main** Menu. Press

button to open it.

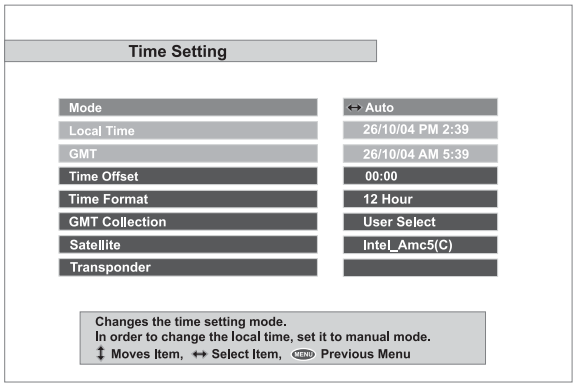


* Conax Conditional Access is valid only in TF5510PVR.

System Setting



Time Setting



The exact local current time can be adjusted by using the **Mode,** the **GMT**, the **Time Offset,** the **Time Format,** the **GMT Collection,** the **Satellite** and the **Frequency** sub menus.

A. Mode

By using V-, V+ buttons, you can select on of the **Auto**/**Manual** mode. The **Auto** mode updates the time settings automatically by the GMT received from the broadcast and the **Time Offset** you have inserted. The **Auto** mode is recommended.

B. Local Time

The Local Time is adjustable only when the Mode is in the **Manual** mode. Adjust the current time, if necessary, by using the numeric buttons and V- , V+ buttons.

C. GMT

GMT is referred to the standard time of Greenwich. It cannot be changed.

D. Time Offset

The current time of the local area can be inserted. In another words, insert the time difference of the local time zone from the GMT. For example, if the local area is Seoul (the time difference from the GMT is 9), insert 9:00. The time is adjustable by using V- , V+ buttons, 15 minutes at a time.

E. Time Format

Selected a Time Format by using V- , V+ buttons. The default Time Format is 12-hour.

F. GMT Collection

The PVR will get the time information from the TPs selected.

Mode	Comment
Normal	The PVR gets the time information from all the TPs.
CAS TP	The PVR gets the time information from the CAS TPs.
User Select	The PVR gets the time information from the TPs selected by users.

G. Satellite

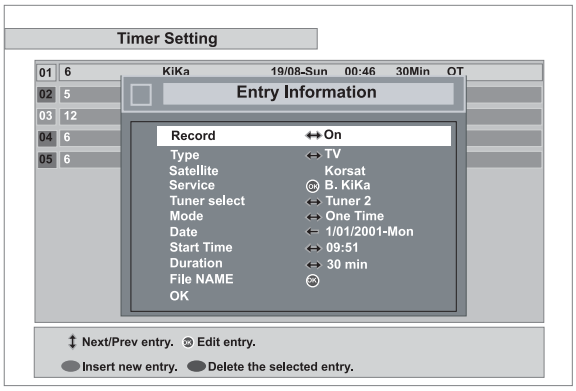
This menu is selectable while the **GMT Collection** menu is **User Select**.
Select a satellite you want to select TPs from it.

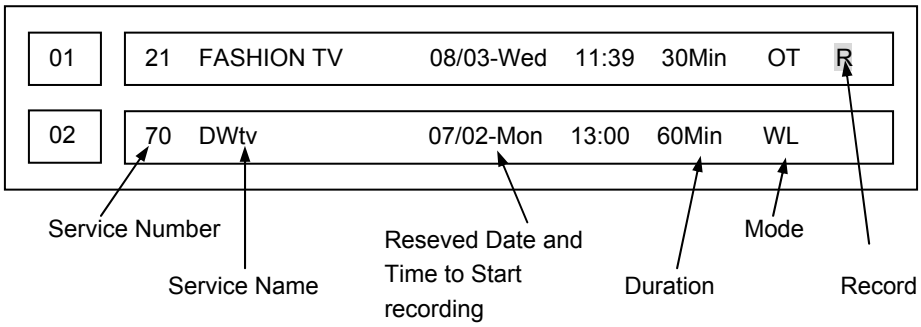
H. Transponder

This menu is selectable while the **GMT Collection** menu is **User Select**.
Select TPs you want to select to get the time information.

Timer Setting

To insert new entry of Timer Setting, press (Red) Button. Press OK button to edit the entry, and press (Green) button to delete the selected entry.
There are **Record ON** and **OFF** modes in **Timer Setting**.





A. Record ON : This function is used for the delayed recording to the HDD of PVR.

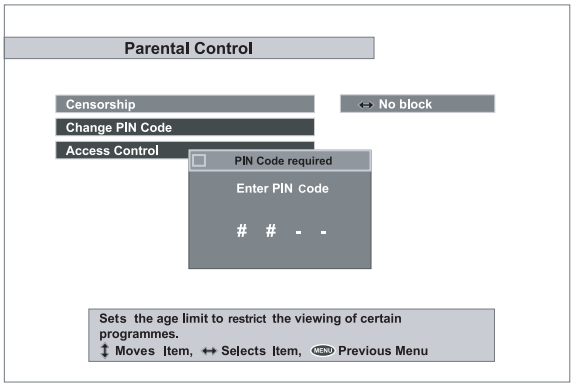
- **Type** : Select TV or Radio by pressing V-, V+ button.
- **Satellite** :Press OK button to display the satellite list. Select a satellite that includes the channel to be recorded.
- **Service** : Select the service to be reserved for recording by pressing OK button.
- **Tuner Select** : Select **Tuner1** or **Tuner2** by pressing V-, V+ buttons.
- **Mode** : By using V-, V+ buttons, select one among **One Time**, **Everyday**, **Every Weekend**, **Weekly**, and **Every Weekday**.
- **Date** : Select the recording start date by pressing V-, V+ buttons.
- **Start Time** : Select the recording start time. V-, V+ buttons and 0 – 9 buttons are available.
- **Duration** : Select the recording duration by pressing V-, V+ buttons.

- **File Name** : To change file name as you want, press OK button. The keyboard will appear.
- **OK** : To confirm the setting for the reserved recording, press OK button.

B. Record OFF: It is a useful function for reserved recording to a VCR or for wakeup function like VCR Timer. If the **Record** item is set to **Off**, the PVR wake up and play it by the reserved conditions, but does not record it to the HDD of PVR.

For details, refer to the explanation of **Record ON**.

Parental Control


Parental Control
Censorship
↔ No block
Change PIN Code
Access Control
PIN Code required
Enter PIN Code
- -
Sets the age limit to restrict the viewing of certain programmes.
↕ Moves Item, ↔ Selects Item, MENU Previous Menu

Password to various menus can be configured. The PIN Code box will automatically appear when this menu is selected. The default PIN Code is **0000**.

A. Censorship

The **Censorship** item blocks programs according to each specific setting.

Use V-, V+ buttons to select the items below.

No Block : Access to everyone.

Total Block : Access to no one without PIN code.

If the channel is limitation free, the block function will not work.

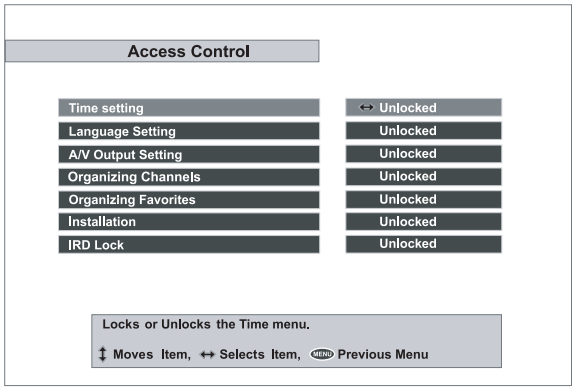
4~18(age): Inaccessible for viewers within each minimum age limit if a maturing rating of the event is same or lower than the age limit.

In case of inaccessible, the PVR asks the PIN Code and check the age limit.

B. Change PIN Code

Go to the **Change PIN Code** item to configure new PIN Code. Press OK button, then a box will appear on the screen. Enter the PIN code by using the numeric buttons on your RCU.

C. Access Control



The **Access Control** menu controls access to following items: **Time Setting**, **Language Setting**, **A/V Output Setting**, **Organizing Favorites**, **Installation** and **IRD Lock**. Press V-, V+ buttons to **Locked**/**Unlocked** the access. **Locked** means controlling the access to the specific menus with the PIN Code system. The default PIN Code is **0000**.

Language Setting

There are many languages available for the menu.

A. Menu Language

It is an item for changing the language of the Main menu.
Select the language that the menus will be shown in.
* The supported language can be changed without any notice.

B. Subtitle Language

It is an item for changing the language of the subtitle.

As long as the services support it, the subtitle language is changeable by pressing button on your RCU.
* The supported language can be changed without any notice.

C. Audio Language
It is an item for changing the language of the Audio.
If more than one audio language is transmitted, you may select one language among the languages transmitted by pressing button.
* The supported language can be changed without any notice.

A/V Output Setting

The PVR has many A/V Outputs. Control this menu properly according to external components connected to the PVR. Configurations concerning Audio and Video can be made here.

A. TV Type
Select your TV standard. For automatic **PAL**/**NTSC** selection, set it to **Multi**.

B. Video Output
Select the mode of Video output among **RGB**, **S-Video**, **YUV** and **CVBS** on TV SCART by using , buttons.

C. VCR SCART Type
Select the VCR SCART type either **Standard** or **External A/V**. In case of **External A/V**, the source of TV SCART Output will be selected between VCR SCART input and internal AV by pressing button on the RCU. In case of **Standard**, it will be done automatically by the SCART functionality.

D. TV Aspect Ratio
Select your TV screen format. Select **4:3** or **16:9** mode by using , buttons.

E. 16:9 Display Format
If you have a TV set with the 4:3 picture format and transmission is in 16:9, you can select the display format. Select the **Letter Box** or **Center extract** by using , buttons.

F. Sound Mode

It allows you to configure the sound mode. Select the **Stereo**, **Mono**, **Left** and **Right** mode by using V-, V+ buttons. The Sound mode is configurable later on by using button on your RCU.

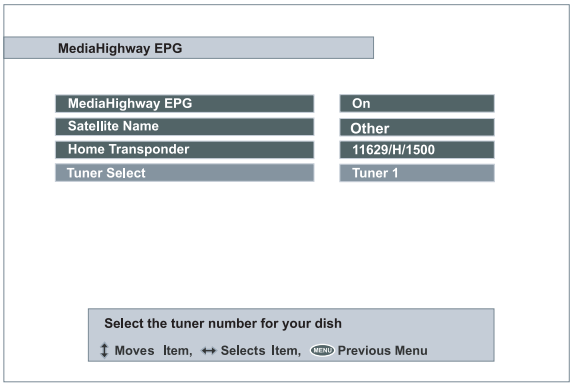
G. RF Type

When the STB is connected to the TV by an RF cable, you may need to select the correct TV standard system. Select the **PAL G**, **PAL I**, **PAL K**, **NTSC M** mode by using V-, V+ buttons. The default RF output is NTSC M.

H. RF Channel

Select a RF channel by using V-, V+ buttons. The default RF channel is CH36.
When you change the RF channel number, you must also change to the same value on the TV. If you do not, there will be no picture and sound.

MediaHighway EPG



A. MediaHighway EPG

To enable the Canal EPG function, select **On**.
Select **On** or **Off** by pressing V-, V+ buttons.

B. Satellite Name

This menu is selectable while the **MediaHighway EPG** menu is **On**.

Select a satellite you want to select TPs from it.

C. Home Transponder
This menu is selectable while the **MediaHighway EPG** menu is **On**.
Select TPs you want to select to get the Canal EPG.

D. Tuner Select
This menu is selectable while the **MediaHighway EPG** menu is **On**.
Select **Tuner1** or **Tuner2** by pressing V-, V+ buttons.

OSD Transparency

Adjust the OSD transparency of all the menus. The available levels are ranging from **0%** to **50%**.

Info Box Display Time

Adjust the time-out of the Info Box. Set the period of time that the Info Box is displayed on screen. The adjustable time is **0** to **30** seconds, **No info box** and **Never Hide**.

Info Box Position

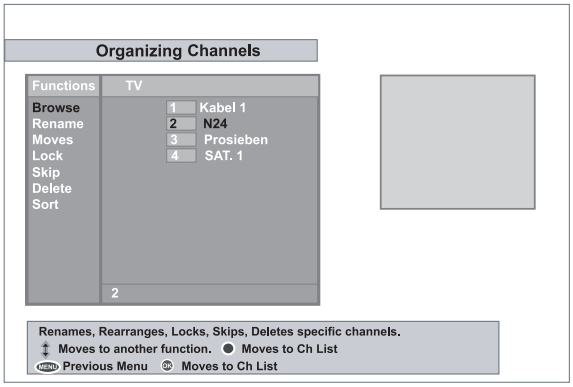
Adjust the position of the Info Box. It allows you to change the position by using V-, V+ buttons.

Time Shifting

To enable the time shifting function, select **Enable**.
If the Time Shifting is enabled, the PVR records the current channel in live. And, you can take advantage of the time shifting function.
To disable time shifting function, select **Disable**. If you don't want to use time shifting function or reduce the power consumption, let the time shifting disable .

Organizing Channels

This menu can be used to rename, reorder, lock, hide and delete TV Services.



A. Browse

Press OK button. Now, browsing through the **Organizing Channels** is possible. Press assigned buttons on the help message.

B. Rename

Use P+, P- buttons to select **Rename** item and press OK button to move the cursor to the Channel List. Press OK button to display keyboard, and rename the channel. After renaming it, be sure to save it by pressing OK button at **Save** item.

C. Move

You can reorder and move the service to the preferred position. Mark the desired channel to move and press OK button. Use P+, P- buttons to choose the **Move** mode.

D. Lock

You can restrain and lock the services. From here, locking (and later unlocking) channels in any of the lists is possible e.g. in order to prevent children from watching it. If a locked service is selected, you should enter the PIN code in order to enjoy it.

E. Skip

You can hide and skip the services. In order to unlock the skip function, press OK button on the skipped channel. The skipped channels will not be visible on the channel list.

F. Delete

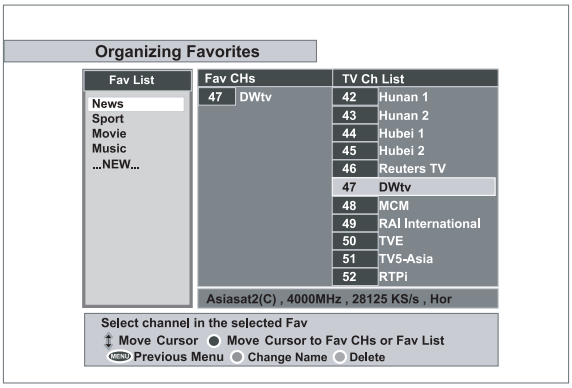
Press OK button to delete channels. The delete function differs from the skip function as it deletes the channel completely. Whereas, the skip function just makes the channel invisible.

NOTE: Deleted channels are permanently deleted. The only way to recover them is to perform a new channel search.

G. Sort

You can sort and rearrange the channel list.

Organizing Favorites



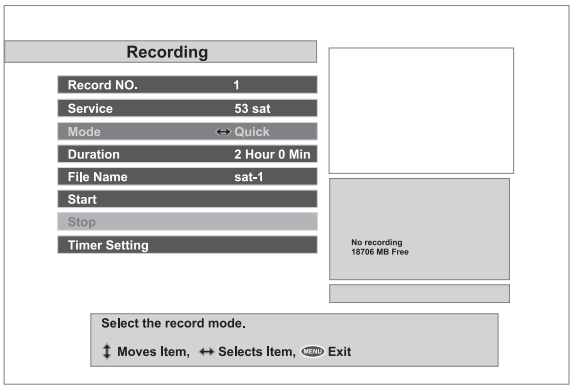
This mode is helpful in adding and deleting services to and from the favorite group. Under the menu **Organizing Favorites**, there are three different modes:

Fav List , **Fav CHs** and **TV** or **Radio Ch List**.

On the **Fav List** mode, four standard lists are selected as the default menus: **News**, **Sports**, **Movie** and **Music**. Up to 30 lists including these lists can be added and renamed. When deleting a service, select a service in the **Fav CHs** section and press the assigned button on the help message.

To add services into **Favorites**, locate the cursor to the desired service in **Ch List** and press OK button. To delete a service from Favorites, locate the cursor to the service in **Fav CHs** and press OK button.

Recording



To record the service you want, you have to set the following options. You can record the service immediately. To reserve a recording, you have to use **Timer Setting** function in System Setting at Main menu. You can go to the **Timer Setting** menu directly by selecting **Timer Setting** item in this menu, too.

A. Record NO.

Two services can be recorded simultaneously. You can distinguish between the two records by this Recording NO. Press V- , V+ button to select **Record NO.1** or **2**.

B. Service

Press OK button to display the service list. Select a channel to be recorded.

C. Mode

There are two recording modes.

To record the selected service immediately, select the **Quick** mode.

To record current event including the data in the time shifting buffer, select **Current Event** mode. The **Current Event** mode is valid only when the event information of the channel exists.

D. Duration

To change the duration of the recording time, press V- or V+ button.

E. File Name

To change the file name of the service to be recorded, press OK button at this item. You can change the file name by keyboard on screen.

F. Start

To start recording immediately, press OK button at this item. For reservation you may use **Timer Setting** in **System Setting** menu.

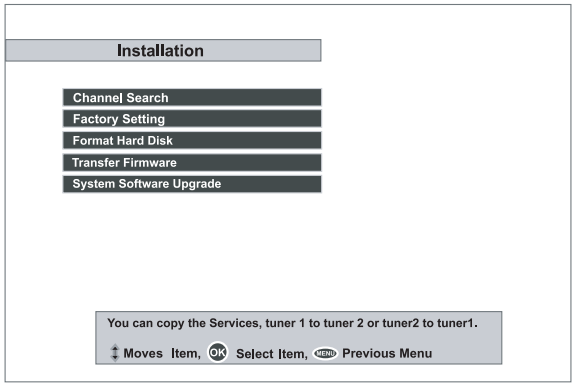
G. Stop

To stop recording immediately, press OK button at this item.

H. Timer Setting

Press OK button at this item to go to the **Timer Setting** menu directly.

Installation


Installation
Channel Search
Factory Setting
Format Hard Disk
Transfer Firmware
System Software Upgrade
You can copy the Services, tuner 1 to tuner 2 or tuner2 to tuner1.
Moves Item, OK Select Item, MENU Previous Menu

LNB Setting

The Low Noise Block down Converter (LNB) amplifies the signal received by the satellite dish and lowers the frequency of the signal. The signal is then fed from the LNB at the dish via cable to the PVR.

For the LNB Setting, move the cursor to **Installation** item and press OK button.

Then, move the cursor to the **LNB Setting** item and press OK button.

A. Satellite Name

Press OK button to display the Satellite List. The list of Satellite is put in alphabetical

order. Select one of the preprogrammed satellites that corresponds to the direction of the antenna. If the desired satellite name is not in the list, then select **Other**.

B. Tuner Select
Select a tuner for channel searching from the selected satellite.

C. Connection Type
If two tuners share one LNB, select **Loop Through**. If a service is being recoded, the other tuner can receive only the signal of the same band and polarity as being recorded in this configuration.
If the tuners are connected to separated LNBs (or Dual LNB), select **Separated**. There is no restriction as in the **Loop Through** configuration.

D. LNB Frequency
Select the L.O. Frequency of the LNB. The LNB Frequency of 5150, 9750, 10600, 10750, 11475, 9750/10600 or 9750/10700 can be selected by V- or V+ button.
Also you can insert LNB frequency by using Numeric key on the RCU**.**

E. LNB Power
Select LNB power **On** to output the LNB voltage.

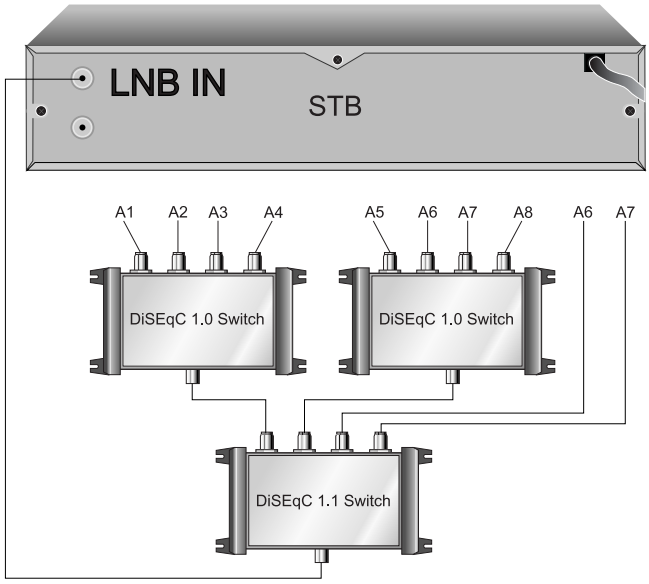
F. 22 KHz
If you are using a 22 KHz tone switch box, make 22 KHz tone switch enable or disable to select LNB or antenna.

NOTE: If the LNB Frequency is set to Universal LNB (9750/10600 or 9750/10700), it is not possible to set 22KHz because high or low band is selected by 22KHz.

G. DiSEqC 1.1
The PVR is designed to be DiSEqC 1.1 compatible. This allows multiple antennas to be connected to the PVR at the same time. If you are using two or more fixed antennas or LNBs, then it is recommended to use a DiSEqC 1.1 switch.
If you use a DiSEqC 1.1 switch only, it is possible to connect up to 4 antennas.
Set the DiSEqC 1.0 to **Disable** and select an item in DiSEqC1.1.

If you use a DiSEqC1.1 switch and DiSEqC1.0 switches, it is possible to connect up to 16 antennas. Connect the DiSEqC1.1 switch to the LNB input and connect the

DiSEqC1.0 switches to the DiSEqC1.1 switch.
Set the DiSEqC1.1 item and DiSEqC1.0 item according to the antenna configuration. For example, set DiSEqC1.1 to **2 of 4** and DiSEqC1.0 to **3 of 4** to select **A7**.



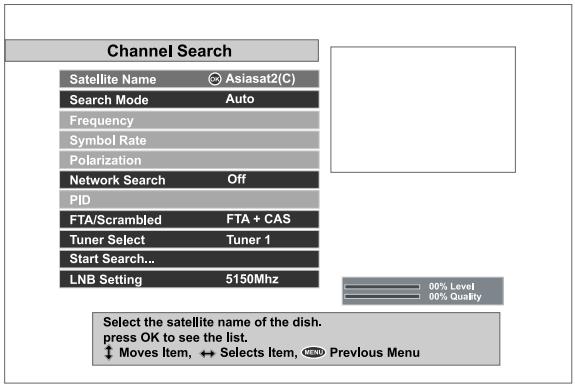
H. DiSEqC 1.0

The PVR is designed to be DiSEqC 1.0 compatible. This allows multiple antennas to be connected to the PVR at the same time. If you are using two or more fixed antennas or LNBs, then it is recommended to use a DiSEqC 1.0 switch.
Select one of **1 of DiSEqC** to **4 of DiSEqC**, **Mini A**, **Mini B** or **Disable** according to the option or the configuration of DiSEqC switch box or antenna.

I. Channel Search

To go to Channel Search menu directly from LNB Setting menu, press OK button at this item.

Channel Search



A. Satellite Name

Press OK button to display the Satellite List Box. The list of Satellite is put in alphabetical order. Select one of the preprogrammed satellites that correspond to the direction of the antenna. If the desired satellite name is not in the list, then select **Other**.

B. Search Mode

There are 4 search modes, There are 4 search modes, **Auto**, **Manual**, **Advanced** and **SMATV**. The **Auto** mode enables you to search using the information the PVR has. On the other hand, you may need to know in advance the frequencies and the symbol rates before using the **Manual** mode. On the **Advanced** mode, enter the Audio PID, Video PID or the PCR PID. The **SMATV** mode is used to special purposes on satellite master antenna TV system.

C. Frequency

Select or enter the Transponder's Frequency by using the numeric buttons on your RCU.

D. Symbol Rate

Enter the Transponder's Symbol Rate by using the numeric buttons on your RCU.

E. Polarization

Choose the type of polarization, either the **Horizontal** or the **Vertical**.

F. Network Search

This **Network Search** item can be used if the **Search mode** is set to **Manual** or **Auto**. If

the **Network Search** item is set to **On** and the NIT (Network Information Table) is available, the Transponder's information can be found.

G. PID

This item is valid when the Search Mode is set to **Advanced** only.

Press OK button to enter Video, Audio and PCR PID's.

1) Video PID

Insert the Video PID by using the numeric buttons on your RCU.

2) Audio PID

Insert the Audio PID by using the numeric buttons on your RCU.

3) PCR PID

Insert the PCR PID by using the numeric buttons on your RCU.

4) SAVE

To ensure the above Video, Audio and PCR PID change, press OK button at this item.

H. FTA/Scrambled

Choose your favorable channels you want to search among **FTA only**, **CAS only** and **FTA+CAS**.

I. Tuner Select

Select a tuner for channel searching from the selected channel.

J. Start Search...

To start the searching process, press OK button at this item.

To stop the searching process on the way, press either the MENU button or the EXIT button. This menu will be shown as long as the PVR is searching for channels. All channels found will be listed in two columns on the screen with TV channels in one column and Radio channels in the other. Please note that the search procedure may take a few minutes.

When the search procedure is completed, the screen will show how many TV and Radio channels have been found. Press OK button to save the channels.

K. LNB Setting

To go to **LNB Setting** menu directly from **Channel Search** menu, press OK button at this item.

Services Copy

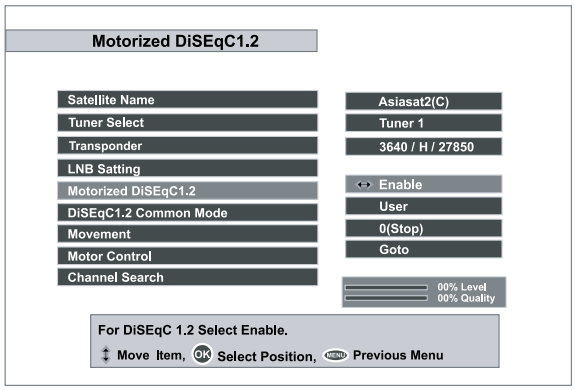
In this menu, you can copy the existing channels between Tuner 1 and Tuner 2.

A. Tuner 1 to Tuner 2
Copy the service list of Tuner 1 to that of Tuner 2.

B. Tuner 2 to Tuner 1
Copy the service list of Tuner 2 to that of Tuner 1.

C. All
Add the service lists of Tuner 1 and Tuner 2 and save it to service list of Tuner 1 and that of Tuner 2.

Motorized DiSEqC 1.2



If you have DiSEqC 1.2 motorized system, then you can use the DiSEqC 1.2 functions.

A. Satellite Name
Select a satellite name that will be used to identify a motor position.

B. Tuner Select
Select a tuner that is connected with DiSEqC 1.2 system.

C. Transponder
Select the transponder to catch the strong signal. Select the TP from TP list box to get the strong signal.

D. LNB Setting
Please refer to **LNB setting** of this chapter.

E. Motorized DiSEqC1.2
Select **Enable** or **Disable**. If you are using DiSEqC1.2 antenna, set to **Enable**.

F. DiSEqC Command Mode
Change the current mode between **User** and **Installer** modes.
-**User**: This mode is used to fine-tune the position of the motor for better reception.
-**Installer**: This mode is used to search for the position of a satellite manually.

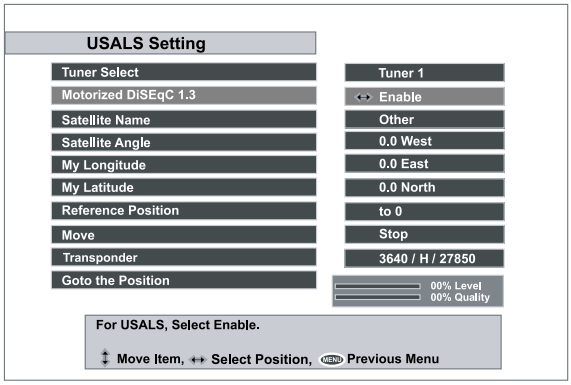
G. Movement: In case of **User** mode, the movement is adjustable by fine-tuning.
In case of **Installer** mode, the movement is adjustable by **East** , **West** going command.

H . Motor Control
- **Goto** : Move the motor to the stored position of the selected satellite.
- **Store** : Store the current position of the motor for the selected satellite.
  * The followings are available only at the Installer mode.
- **Recalculate** : Recalculate the position of the Stab Rotor motor.
- **Goto Ref** : Go to reference.
- **Limit E** , **Limit W** : Set the limits of East and West position.
- **Limit Off** : Remove the limitation.
- **Reset** : Reset all the stored position of the motor relative to the “0” position

I . Channel Search
After saving the DiSEqC configuration at the highest signal quality, press OK button to start channel searching of the selected satellite.

USALS Setting

USALS is very convenient motorized DiSEqC system that supports DiSEqC 1.3 command and also can get the satellite position automatically if you know your geographical location. Basically, the listed satellites have its Longitude and therefore the angle of the satellite can be calculated without problem.
If you have USALS motorized system, then you can use the USALS as followings.



A. Tuner Select

Select a tuner that is connected with USALS system.

B. Motorized DiSEqC1.3

Select **Enable** or **Disable**. If you are using DiSEqC1.3 switch, set to **Enable**.

C. Satellite Name

Select a satellite that will be used to identify a motor system.

D. Satellite Angle

It is the longitude of the selected satellite and it can be set automatically in case of selecting a satellite name. You can use numeric keys of RCU to enter the angle. **East** or **West** will be selected by V- , V+ button.

E. My Longitude

It means the longitude of your location. You can select the angle, East and West by V-, V+ or numeric button.

F. My Latitude

It means the latitude of your location. You can select the angle, **South** or **North** by V-, V+ or numeric button.

G. Reference Position

Go to Reference position (Ø°)

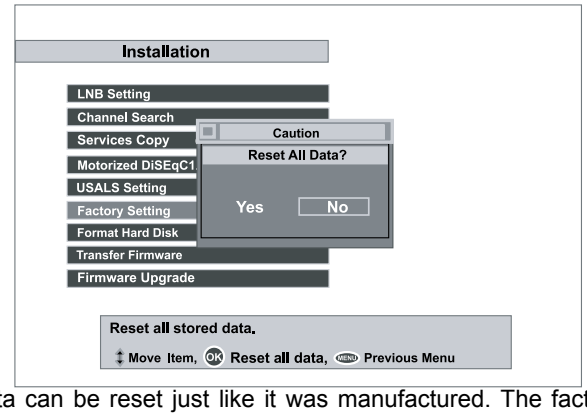
H. Move : After searching the position you want by **Goto the position** item, you can tune the antenna to go to the exact position by this item. V- , V+ button moves the antenna to anti-clockwise and clockwise respectively.

I. Transponder : Selects the Transponder to catch the strong signal.

J. Goto the position

After setting the **Longitude**, **Latitude** and the longitude of the selected satellite, this menu is used when you want to move the desired direction (position) of the dish saved before. Its moving limit is ±65°.

Factory Setting



All the stored data can be reset just like it was manufactured. The factory setting has two steps. The first is to reset the channel data and other system configurations except Motorized DiSEqC1.2 setting. The second is to reset the parameters of Motorized DiSEqC 1.2.

Format Hard Disk

To format the HDD in PVR, Press OK button at this Item.

Formatting Hard Disk will delete all the data and the files recorded in HDD permanently. If a new HDD is installed, it should be formatted because the file structure of PVR is different from others.

You can not use the Time shifting, Recording and playback functions with an unformatted HDD.

Transfer Firmware

A. Transfer Program to Other IRD

It is used to transfer PVR firmware to other PVR for upgrading the PVR.

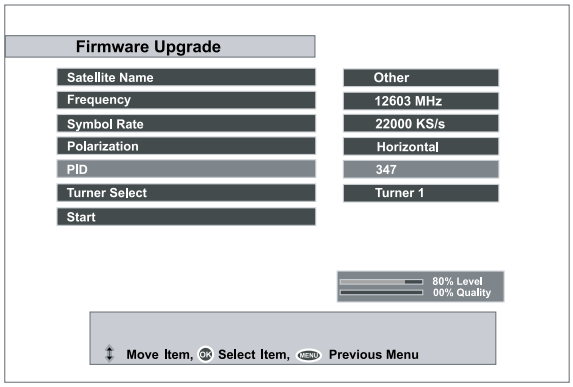
Notes: Please proceed this menu with connecting the PVR of same model and same specification.

B. Transfer Data to Other IRD

It is used to transfer PVR Data such as service information to other PVR for upgrading the PVR.

Notes: Please proceed this menu with connecting the PVR of same model and same specification.

Firmware Upgrade



At this menu, you can download the latest PVR software from Satellite.
The TP details are as bellows.

Astra

FREQUENCY : 12603 MHz
S / R : 22000 KS/s
Polarity : Horizontal
PID : 347

Hotbird 4

FREQUENCY : 12673 MHz
S / R : 27500 KS/s
Polarity : Vertical
PID : 730

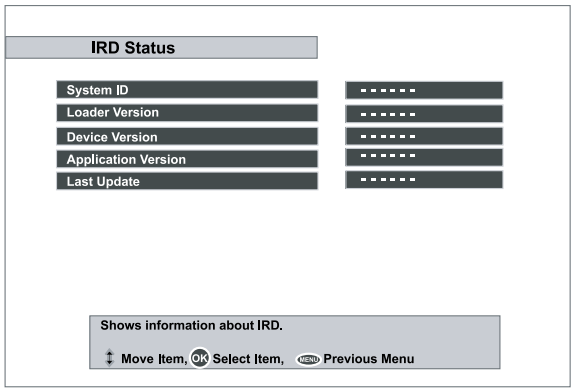
For OTA (Over - The - Air Upgrade), it takes around several minutes to download software from the Satellite.
To start OTA, press OK button at **Start** item.

For better service, the satellite and TP can be added or changed. You can get the information at **www.i-topfield.com**

Information

You can check the IRD(PVR) version and refer the calendar.

IRD Status

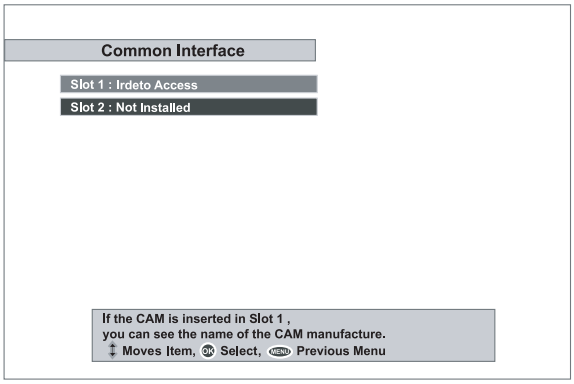

IRD Status
System ID
Loader Version
Device Version
Application Version
Last Update
- - - - - -
- - - - - -
- - - - - -
- - - - - -
- - - - - -
Shows information about IRD.
Move Item, OK Select Item, MENU Previous Menu

Check the PVR's system information here. It shows the System ID, Loader Version, Device Version, Application Version and Last Update.

Calendar

Press V- or V+ button to select the year. Press P+ or P- button to select the month.

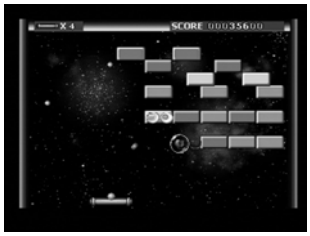
Common Interface


Common Interface
Slot 1 : Irdeto Access
Slot 2 : Not Installed
If the CAM is inserted in Slot 1 ,
you can see the name of the CAM manufacture.
Moves Item, OK Select, MENU Previous Menu

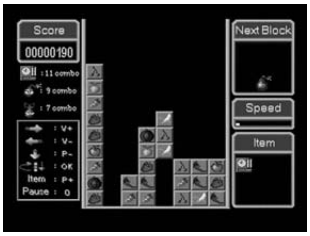
The menu differs according to each inserted CAM. If the module has not been installed yet, the phrase **Not Installed** will be indicated.

Game

ExBlock

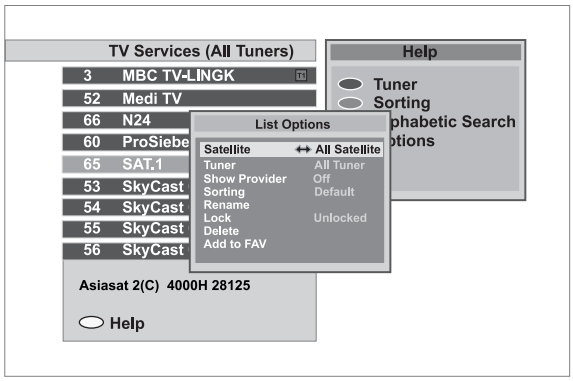


Bomb Hexa



FUNCTION GUIDE

Channel List



Press OK button to see the Channel List. The Channel List displays as follows.

• Service provider. (It can be displayed by pressing button.)

• Channel List by *T1* (Tuner 1) or *T2* (Tuner 2).

• Scrambled Mark by **$**.

By using (White) button in the Channel List, you can use the functions as follows.

• (Red) button: Display the channel List of Tuner 1 or Turner 2.

• (Green) button: Sort the channel List by Alphabetic.

* The sorted channel list will be displayed in the channel list menu only.

• (Yellow) button: Search the channel list by Alphabetic.

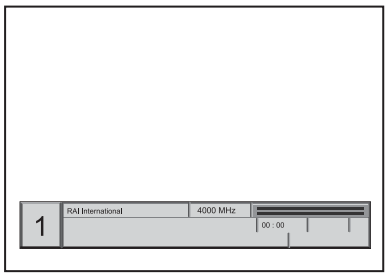
• (Blue) button: Display the options. You can use this options by pressing V-, V+ or OK button.

- **Satellite** : Displays the channel list by satellite.
- **Tuner** : Selects among Tuner 1, Tuner 2 and all Tuner.
- **Show Provider** : Displays the channels by service provider.
- **Sorting** : Selects among **Default**, **Alphabetic**, **FTA~CAS**, **CAS~FTA, Provider** and **Fav~NO Fav**.
- **Rename**: Renames the marked channel.
- **Lock** : Makes the marked channel **Unlocked** or **Locked**.
- **Delete** : Deletes the marked channel.
- **Add to FAV** : Adds the marked channel to the FAV List

Information Box

Press i button on the RCU to see the program information. The Information box displays as follows:

. Channel Number
. Channel Name
. Detailed Program Information
. Signal Level and Quality
. Tuner Information
. Information of subtitle and / or teletext
. Parental Lock



You can hide the Information Box by pressing i button.

A. Live picture

Service Number	Service Name	Satellite/TP Info	Signal Strength	
	Event Name	Time Information	CAS, Subtitle, Teletext	Parental Lock Mark
	Event Description	Start Time ~ End Time / Dolby / Multifeed		

You can see the Current/Next event by pressing V- / V+ button in the information box. To control the volume in the information box, you have to press V- / V+ button two times without interval.
If EPG is available on programs, by using V- , V+ buttons, you can see the EPG. You can see extended information of the event by pressing i button once more.

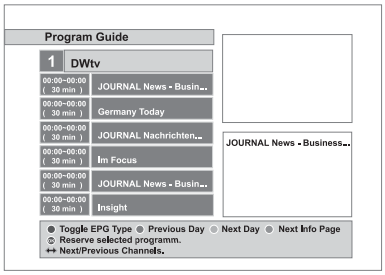
B. Playback

▷	File Name	Satellite/TP Info	Progress Bar	
	Event Name	Time Information	CAS,Subtitle, Teletext	
	Event Description	Duration / Dolby / Multifeed		

C. MP3

▷	Title	Bitrate	Progress Bar	
	Artist	Time Information		
	Album	Duration		

EPG (Electronic Program Guide)



To display the information about currently being broadcasted as well as those that will be broadcasted next, press GUIDE button on the remote control unit.
If EPG is available on programs, you will see the detailed description of the programs, start/end time and programs schedules etc.

P+ , P- buttons will be used to move program and to see next program schedules.
V- , V+ buttons will be used to switch the channel.
OK button makes the reservation for the next program.
i button shows extended information of the event.
TV/R button will change the contents of EPG between TV and Radio services.
(Red) button switches the EPG from Single Service to Multi Service and in opposition.

Subtitle

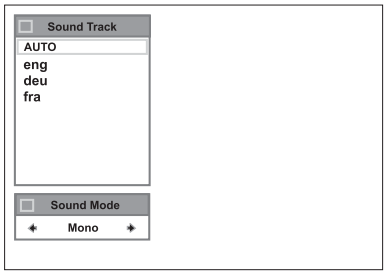
You can choose a language of subtitle using button on the RCU.
If the broadcaster provides subtitles, you can see ⎕ symbol in the Information Box.

Teletext

If the broadcaster supports teletext, you can see ☰ symbol in the Information Box. There are VBI insertion mode and software emulation mode in teletext. In the VBI insertion mode, which is always on, you can watch the teletext with your TV using the RCU of your TV. To watch teletext with VBI insertion, your TV must support teletext.

In the software emulation mode, you can watch the teletext even though your TV does not support teletext. You can watch the teletext using the RCU of PVR.
Press **Teletext** ( ) button to watch the teletext with software emulation mode.
Press button once more or **EXIT** ( ) button to escape from teletext.

Sound Track

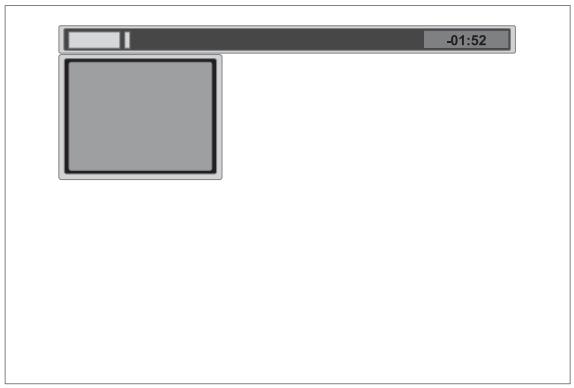


You can choose a language of soundtrack by pressing button when a broadcaster supports various languages of soundtrack.
Also, it is possible to choose a mode among Stereo, Mono, Left and Right using V- , V+ buttons. button is used for multifeed function, too. If the multifeed is available in current service,
Multifeed Track will be displayed first. You can change the display to Sound Track selection menu by pressing button once more.

Multifeed

If multifeed is available in the channel, Multifeed Icon ( ) will appear at the right side of the Information box. If available, the Multifeed Track and Sound Track are toggled by button. It is possible to choose one of the multifeed channel.

Time Shifting

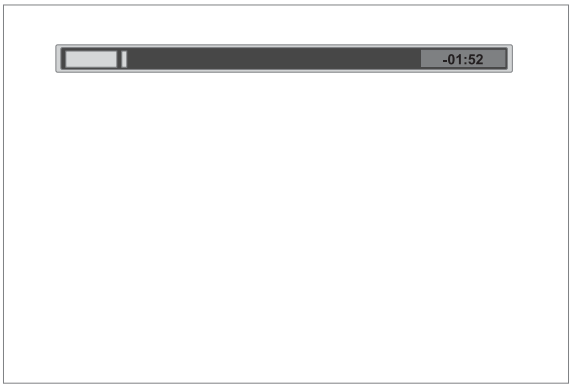


1. To use **Time Shifting** function, the **Time Shifting** option should be enabled.
   To find the Time Shifting option menu, follow the steps below.

   Main Menu → **System Setting** → **Time Shifting** → **Enable**

2. Press button to display Time Shifting progress bar. You have to press button once more to display Time Shifting progress bar during Trick mode. (such as Fast Forward, Reverse Playback, Slow motion)
3. To go to the desired playback position, press V+, button or V+, button. This function is valid while the Time Shifting progress bar is displayed.
4. To remove the Time Shifting progress bar at once, press OK, EXIT or button.
5. To go to the live video, press button.
6. To start Instant Time Shifting, press button. The start position of the playback goes 10 seconds back per each pressing of button.

Recording while Time Shifting



1. Press button to display Time Shifting progress bar.
2. To go to the desired position, V+, button or V-, button.
3. Press button to start recording.
4. The recording will be started from the selected position.
5. Press button to stop Time Shifting.
6. Press button once more to stop recording.

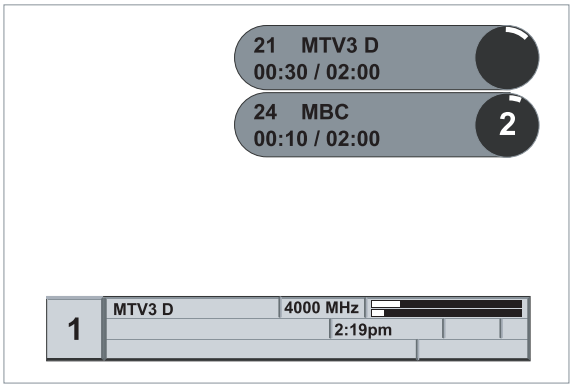
Caution : If the recording time is less than about 1 minute, the recorded file will not be saved.

Recording, Checking and Editing the reserved delayed recording

To record services, refer to the following steps. There are four kinds of recording references.

Caution : If the recording time is less than about 1 minute, the recorded file will not be saved.

Immediate Recording by RECORD button



A. Recording

Press button to record the service you are watching. To specify the stop time, go to **Recording** menu and modify **Duration** item. To go to the **Recording** menu, press button once more or go to **Recording** item of Main Menu.

B. Checking and modification

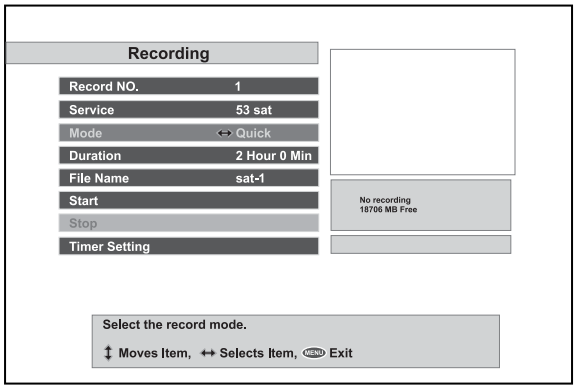
A **Recording Icon** ( ) will be displayed on the upper rightmost of the TV screen for several seconds if the recording is initiated. Press button to see the **Recording Icon**.

To check and modify the recording options, go to **Recording** menu.

C. Stop

Press button and select the service to stop the Recording by confirming button. If only one service is being recorded, it is possible to stop the recording by pressing button twice.

Immediate Recording by Menu Selection



*** Precaution (Dual Recording)**

Before starting recording on the Menu, you have to select one of the **record NO**. There are **Record NO.1** and **2** to distinguish between the two records for dual recording. In case of one channel is recorded at **Record NO.1**, only **Duration** and **Stop** item of **Recording** menu will be enabled. But, all the sub-menu of **Record NO.2** will be enabled.

A. Recording

To go to **Recording** menu, press MENU button and select **Recording** item by pressing OK button. Select the options that you want to record with. Select **Start** item and press OK button. For detailed information, refer to the explanation of **Recording** menu in Menu operations.

B. Checking and modification

A Recording Icon (◯) will be displayed on the upper rightmost of the TV screen for several seconds if the recording is initiated.

To check and modify the recording options, go to **Recording** menu.

C. Stop

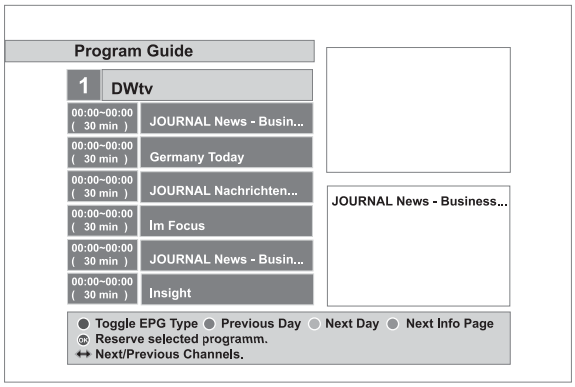
Press ■ button and select the service to be stop the Recording by pressing OK button.

Otherwise, go to **Recording** menu and press OK button at ■ item.

Delayed Recording

See [**System Setting -> Timer Setting**] for more details on Delayed Recording.

Recording by EPG


Program Guide
1 DWtv
00:00~00:00 (30 min) JOURNAL News - Busin...
00:00~00:00 (30 min) Germany Today
00:00~00:00 (30 min) JOURNAL Nachrichten...
00:00~00:00 (30 min) Im Focus
00:00~00:00 (30 min) JOURNAL News - Busin...
00:00~00:00 (30 min) Insight
JOURNAL News - Business...
Toggle EPG Type
Previous Day
Next Day
Next Info Page
Reserve selected programm.
Next/Previous Channels.

A. Record

Press GUIDE button to display EPG. Select a service that you want to record, and press ● button. Instead of ● button, two times pressing of OK button is valid for delayed recording. In these cases the Recording mark (**R**) will be displayed.

Pressing the rec button once more at the service can modify the parameters of delayed recording. If you press the ● button in the modification window, the modification will be canceled.

B. Checking and modification

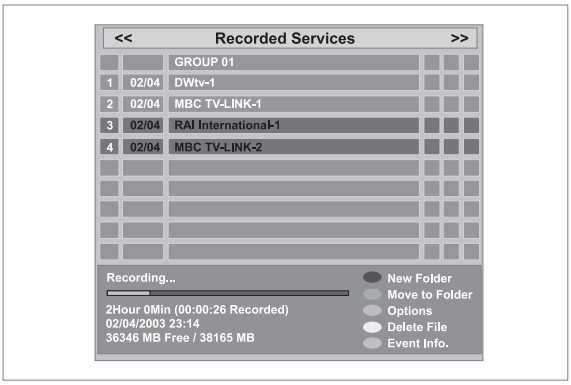
Press GUIDE button to display EPG. The reserved services for delayed recording will be marked with a Recording mark (**R**) or Reserved Event mark (**P**).

Pressing the rec button once more at the service can modify the parameters of delayed recording. If you press the ● button in the modification window, the modification will be canceled.

C. Cancel

Press GUIDE button to display EPG. To cancel a reservation of delayed recording, select the service you want to cancel and press OK button once or twice till the recording mark is disappeared on the service.

Playback a Recorded Service



1. Press button to display the recorded service list.
2. You can use several useful editing functions at **Recorded Services** menu as followings.
   A. **New Folder** : Press (Green) button to make new folder.
   B. **Move to Folder** : Press (Yellow) button to move the Service to a folder.
   C. **Option** : By pressing (Blue) button, you can use optional functions such as
      - **Sorting by Alphabetic, Size, Time.**
      - **Rename**
      - **Lock**
   D. **Delete File** : Press button to delete the recorded service.
   E. **Event Info** : Press button to display extended event information.
3. Select a recorded service at the list.
4. Press button to start playback.
5. Press button to display Time Shifting progress bar. You have to press button once more to display Time Shifting progress bar during Trick mode. (such as Fast Forward, Reverse Playback, Slow motion)
6. To go to the desired playback position, press V+, button or V-, button. This function is valid while the progress bar is displayed.
7. If you enter the position by percent with numeric button of RCU, the playback position will be moved to the point. This function is valid while the progress bar is not displayed.

* **Successive Playback of Services**

Press (Red) button to number the services among the recorded services list and press OK or button to playback the multi-services in sequence automatically.

This function is very convenient for you to descramble the pay TV service with proper CAM module and smart card. You can descramble the scramble services and copy it while you are not using this PVR.

*** MP3 and TAP**

Press , buttons at recorded service list to go to MP3 files and program files(TAP).

Stop

1.This function is available for playback.

2.To stop playback, press button.

3.You can stop the recording in the recorded service list, too. To stop the recording, press button at the selected recording file.

Pausing

To pause the live picture or playback, press button.

Press button again or button to quit pausing.

1. Pause from live video

If the PAUSE is kept more than 10 seconds with enabled Time Shifting mode, the live picture is changed to time-shifted playback. The video continues from the paused image when resumed from PAUSE.

2.Pause from Time Shifting

The video continues from the paused image when resumed from PAUSE.

3. Pause from Playback

The video continues from the paused image when resumed from PAUSE.

Slow Motion Playback

1. To playback in slow motion (without sound), press the button.
2. Slow motion speed can be adjusted by pressing the button repeatedly.
3. There are 3 steps (1/2, 1/4, 1/8) in slow motion playback.
4. Press button to resume playback with normal speed.
5. The slow motion function is available for the playback and the time-shifted playback.

Fast Motion Playback

1. If there is a Time Shifting or Playback progress bar, remove the progress bar by pressing button.
2. Press button for fast motion playback. To change the playback speed, press button repeatedly.
3. There are 3 steps (2, 4, 6) in fast motion playback.
4. Press button to resume playback with normal speed.
5. The fast motion function is available for the playback and the time-shifted playback.

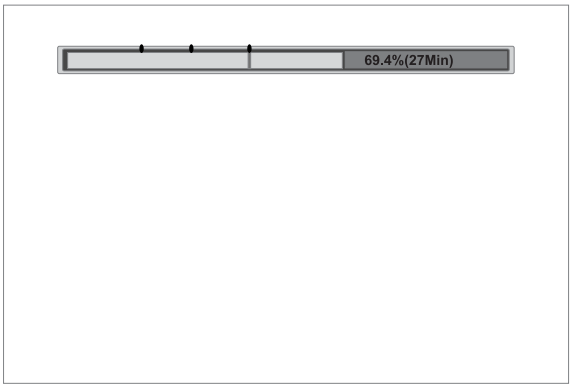
Fast Forwarding and Rewinding

1. Press button to display Time Shifting or Playback progress bar.
2. To go to the desired playback position, press button or button. This function is valid while the progress bar is displayed.
3. To remove the progress bar at once, press button.

Reverse Playback

1. If there is a Time Shifting or Playback progress bar, remove the progress bar by pressing button.
2. Press button for reverse playback. To change the playback speed, press button repeatedly.
3. There are 3 steps (1,2,3) in reverse playback.
4. Press button to resume playback with normal speed.
5. The reverse playback function is available for the playback and the time-shifted playback.

Bookmark



You can jump to a position directly by bookmark function in playback and time-shifted playback. To search positions very quickly and easily, use bookmarks.
It is impossible to use the bookmark in the following conditions.

- Timeshifting is disabled and you are watching live picture.
- You are recording 2 services, and you are watching the other sevice.

1. Add a bookmark
To add a bookmark, press **BOOKMARK** ( ) button at the position you want to add it.
You can make the bookmark at maximum 64 positions.

2. Go to a bookmark
Press **GO TO BOOKMARK** ( ) button to jump to the next bookmark. Then, the PVR plays from the book marked position.

3. Delete a bookmark
To remove a bookmark, you have to display the progress bar by pressing button.
Select the bookmarked position by **GO TO BOOKMARK**( ) button and press **BOOKMARK** ( ) button.

4. 30 seconds forward
If there is no preset bookmark, the PVR plays every 30 seconds forward by pressing **GO TO BOOKMARK** ( ) button.

Recording The Descrambled Live Service

1. Select the live picture you want to record. Descramble the service with a proper CAM and smart card. The live service should be decoded well with the proper CAM and smart card.
2. Start recording according to the recording procedure.
3. During recording, don't change the channel neither try the time shifting function.

Caution : If there is any disturbance such as channel changing or time shifting during recording, the recorded file will be changed to the scrambled format from this position. If the recording time is less than about 1 minute, the recorded file will not be saved.

Descrambling Recorded Services

1. Select and playback a service you want to descramble. Descramble the service with a proper CAM and smart card. The playback service should be decoded well with the proper CAM and smart card.
2. Press ▶ button to display Playback progress bar.
3. To go to the desired position, press ◀◀ button or ▶▶ button.
4. Start playback and the picture should be descrambled with a proper CAM and smart card. The fast/slow motion descrambling is possible by fast/slow motion playback.
5. Start recording by **RECORD** (●) button.
6. The video displayed on TV will be recorded.
7. Press **STOP** (■) button to stop recording.
8. Press **STOP** (■) button again to stop playback.
9. You can playback the multi-service(Pay TV) in sequence. For detailed explanation, refer to **Playback a Recorded service**.

Caution : If the descrambling time is less than about 1 minute, the recorded file will not be saved.

Repeated Playback mode

The repeated Playback mode works only in playback mode. It does not work in time shifting mode. There are two repeated Playback modes.

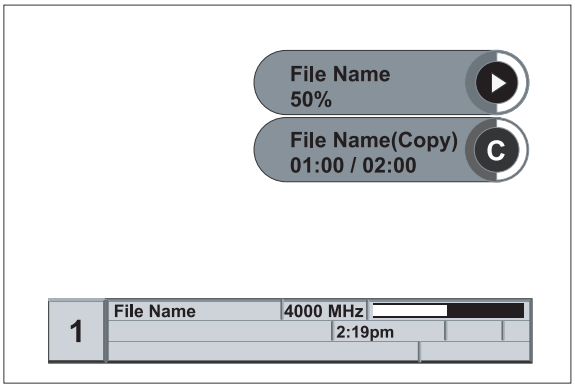
1. Repeating the whole selected service.

a. Start playback a recorded service.
b. Press ⏭ button without the progress bar to repeat the whole selected service.
c. Press ⏭ button once more to cancel the repeating playback.

2. Repeating the selected region.

a. Start playback a recorded service.
b. Press ▶ button to display Playback progress bar.
c. To specify one end of region, press the ⏭ button with the progress bar.
d. Move the cursor by ⏩ pressing (or V+) or ⏪ (or V-) button.
e. To specify the other end of region, press the ⏭ button once more. The color of the selected region will be changed to green.
f. Press ⏭ button once more to cancel the repeating playback.

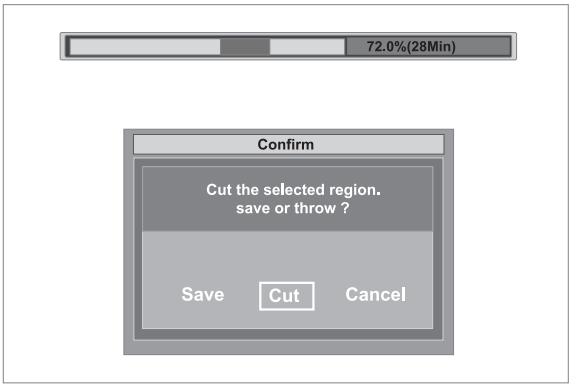
Copying from Recorded Services



1. Select and playback a service to copy.
2. Press ▶ button to display Playback progress bar.
3. To go to the desired position, press ◀◀ button or ▶▶ button.
4. Start playback the recorded video you want to copy. The fast/slow motion copying is possible by fast/slow motion playback.
5. Start copying by ● button.
6. The video displayed on TV will be copied.
7. Press ■ button to stop copying.
8. Press ■ button again to stop playback.

Caution : If the copying time is less than about 1 minute, copying will not be done successfully. It is recommended not to change the playbck speed.

Cut Out / Save Selected Region



1. Start playback a recorded service.
2. Press ▶ button to display Playback progress bar.
3. To specify one end of region, press the ▶▮ button with the progress bar.
4. Move the cursor by pressing ▶▶ (or V+) or ◀◀ (or V-) button.
5. Press ✓ button to cut or save the selected region. Then, a message box appears.
6. To cut out selected region, press the OK button at **cut** item in the message box.
7. To save the selected region, press OK button at **save** item in the message box.

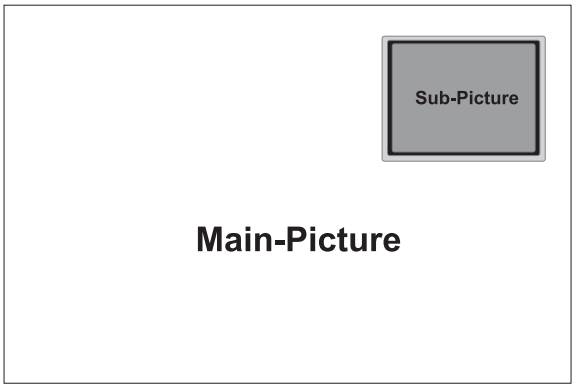
Time Shifting while Recording

During single recording, Time Shifting is possible. But, if you are recording 2 services at the same time, Time Shifting is possible only in the recorded channel.

Zapping while Recording

For the tuner being recorded with, all the channels in the same Channel can be selected. For the other tuner, all the scanned channels can be selected.

Picture In Picture (PIP)



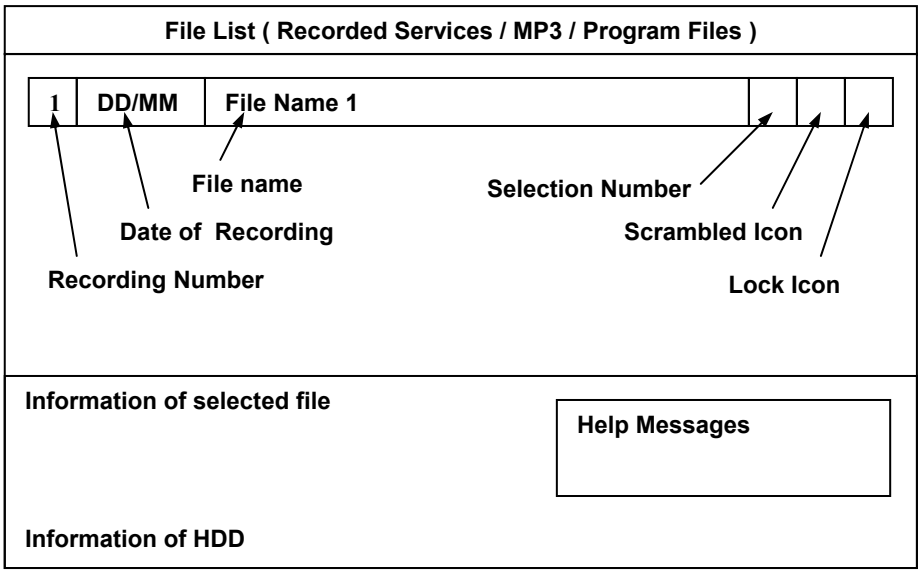
1. Press (Red) button to display PIP. Press (Red) button repeatedly to change the size of sub-picture or to remove the sub-picture.
2. At PIP screen, press Sat ( ) button to exchange main-picture with sub-picture.
   Remarks: It is not possible to exchange main-picture with sub-picture when a recorded service is in playback in main-picture and a live service plays in sub-picture.
3. Press or button to move the position of sub-picture.
4. To display the service list of main-picture, press OK button. You can select a service in the service list.
   To display the service list of sub-picture, press ( ) button.
5. If the both of main and sub-picture are scrambled, only the main-picture will be played.

Dual Recording

1. Press button to start Recording.
2. You can use the Time-shifting function while recording another service. It is possible to record two services at the same time, too.
3. To record the 2nd service, press button at the service you want to record.
4. You can check the status of recordings in the recorded service list. To check it, move the cursor to the file that is being recorded.
   You can stop the recording there, too. To stop the recording, press button at the selected recording file.
5. It is possible to stop the recording in the live picture. To do it, press button and press OK button after selecting the recording by P+, P- button.

File List

The file list has 3 lists. They are **Recorded Services**, **MP3** and **Program Files**. The lists are selected by , buttons. The File list is displayed by pressing button.



Recorded Services List

The file list is displayed by pressing button. The file list of **Recorded Services** can be selected by , buttons from other list.

1. You can see the file number, file name, date of recording, information of scramble, locking, Service name, event information, file size, HDD information, etc.
2. Folder
   A new folder can be made by pressing (Green) button. The new folder will be named as **GROUP #**. The name can be changed by option (Blue) button. The keyboard will be displayed if you select the **Rename** there.
3. Move
   Press (Yellow) button after selecting a file you want to move. The lists of Folders will appear. You can select a folder you want.
4. Delete
   Press (White) button after selecting a file you want to delete. You have to confirm it to delete at confirmation box.
5. Sorting, Rename, Lock
   Press (Blue) button to display option list. You can sort, rename and lock the selected file or folder. If a file is locked here, the **Lock icon** will appear in the file list.
6. Icons

Scrambled Icon

Icon (color)	Description
$ (Yellow)	Scrambled
$ (Yellow/Green)	Partially Scrambled
$ (Green)	Decrambled
None	Non-scrambled (FTA)

Lock Icon ( )
It means that the file is locked. To play the files you have to enter the PIN code.

7. Playback
   To playback the selected file, press button or button.
8. Successive Playback of Services

Press (Red) button to number the services among the recorded services list and press or button to playback the multi-services in sequence automatically. This function is very convenient for you to descramble the pay TV service with proper CAM module and smart card. You can descramble the scramble services and copy it while you are not using this PVR.

9. Successive copy of Services
   Select the services you want to copy by pressing (Red). You can start copying by pressing button.
10. Event information
    If there was Event information when the service was recorded, you can see the information by pressing button.

MP3 File List

The file list is displayed by pressing button. The file list of **MP3 files** can be selected by , buttons from other list.

1. You can download the MP3 files via USB from PC using Altair.exe.(You can get it from **www.i-topfield.com**) The list of MP3 files will be displayed here.
2. **Folder**
   A new folder can be made by pressing (Green) button. The new folder will be named as GROUP #. The name can be changed by option (Blue) button. The keyboard will be displayed if you select the **Rename** there.
3. **Move**
   Press (Yellow) button after selecting a file you want to move. The lists of Folders will appear. You can select a folder you want.
4. **Delete**
   Press (White) button after selecting a file you want to delete. You have to confirm it to delete at confirmation box.
5. **Sorting, Rename**
   Press (Blue) button to display option list. You can sort, rename the selected file or folder.
6. **Play**
   To play the selected file, press button or button.

7. **Successive Playback of MP3 files**
   Press (Red) button to number the files among the file list and press OK or button to play the files in sequence automatically.
8. **Play by folder**
   To play the files in specific folder, select a folder and press button.
9. **Select Play mode**
   To select a play mode of MP3, press (white) button. There are **normal**, **repeat one** and **repeat all** modes.

Program File List

The file list is displayed by pressing button. The file list of **Program files** can be selected by , buttons from other list.

1. You can download the TAP(Topfield Application Program) via USB from PC using Altair.exe.(You can get it from **www.i-topfiled.com**). The list of the TAP will be displayed.
2. **Folder**
   A new folder can be made by pressing (Green) button. The new folder will be named as GROUP #. The name can be changed by option (Blue) button. The keyboard will be displayed if you select the **Rename** there.
3. **Move**
   Press (Yellow) button after selecting a file you want to move. The lists of Folders will appear. You can select a folder you want.
4. **Delete**
   Press (White) button after selecting a file you want to delete. You have to confirm it to delete at confirmation box.
5. **Sorting, Rename**
   Press (Blue) button to display option list. You can sort and rename the selected file or folder.
6. **Run**
   To run the selected file, press OK button.
7. **Auto Run**
   If you want a program runs automatically when the PVR starts up, move the program to the **Auto Start** folder.

If you are pressing the 0 button when the PVR starts up, the program in the **Auto Run** folder will not run. Remove the program from the **Auto Run** folder if you do not want to auto run.

Progress Icon

There will be Icons during Playback, Time Shifting, Recording and Copying. They will be displayed for a seconds. To display it again, press *i* button.

Icon (color)	Description
(Red)	Recording. - Small Circle in the large circle means the current service you are watching is being recorded. - The number in the large circle means recording number. And, the service being recorded is not the service you are watching. - The outer circle mean displays the rate of progress.
(Green)	Playback. - The figure in the circle shows you the playback speed. - The outer circle displays the rate of progress.
(Red)	Copying. - The character **C** in the circle means copying. - The outer circle displays the rate of progress.

SOFTWARE UPGRADE AND PC INTERFACE

Software Upgrade

The PVR has stable and convenience software to use. But, to improve the PVR the new software of the PVR may be released.
Whenever a problem is found or functions are added or modified, the software in the PVR has to be upgraded to enjoy better function.
The latest news, software, utility, driver, product and manual will be found at Topfield website **http://www.i-topfield.com**

There are some methods to download the new software.

(a) PVR to PVR download via RS232C
It is possible to download the firmware or channel data from PVR to another PVR.

(b) PC to PVR download via RS232C
You need the **TFD-down.exe** to download the software.
Start download at PC and turn on the PVR.

(c) PC to PVR download USB
You need to the **TFDN_USB.exe** to download the software.
Start download at PC and turn on the PVR.

(d) OTA
You can download the latest PVR software from Satellite by OTA. To upgrade your PVR by OTA, you should receive the signal from Hotbird or Astra.
The satellite and TP can be added or changed. You can get the information at **www.i-topfield.com**

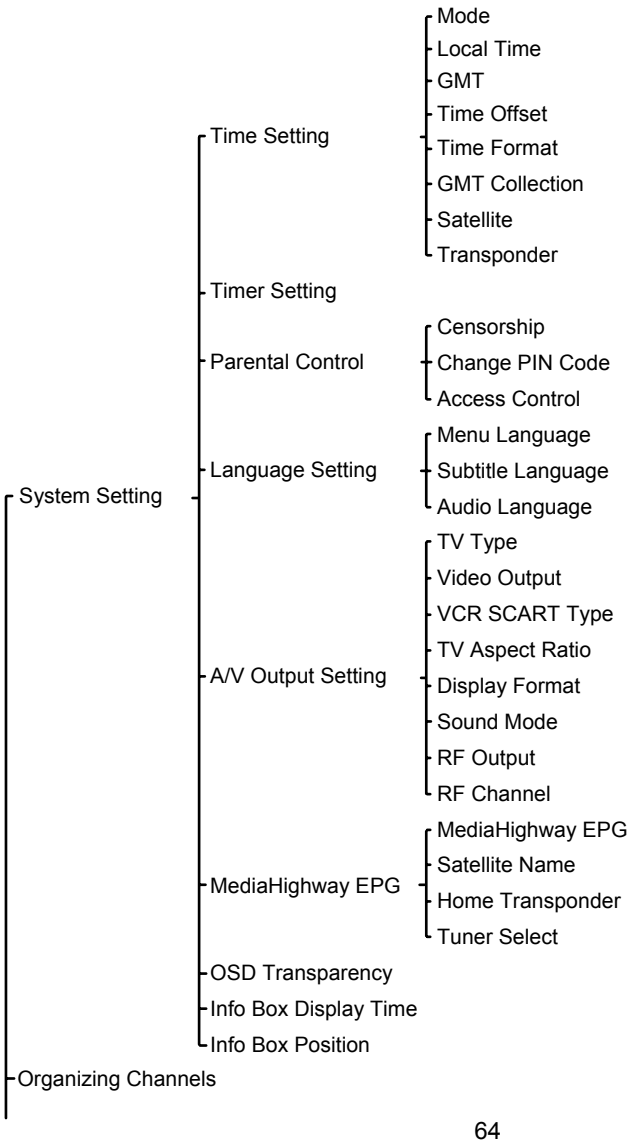
For more information, refer to the **transfer firmware** chapter of **Menu Operations**.

File download and upload via USB

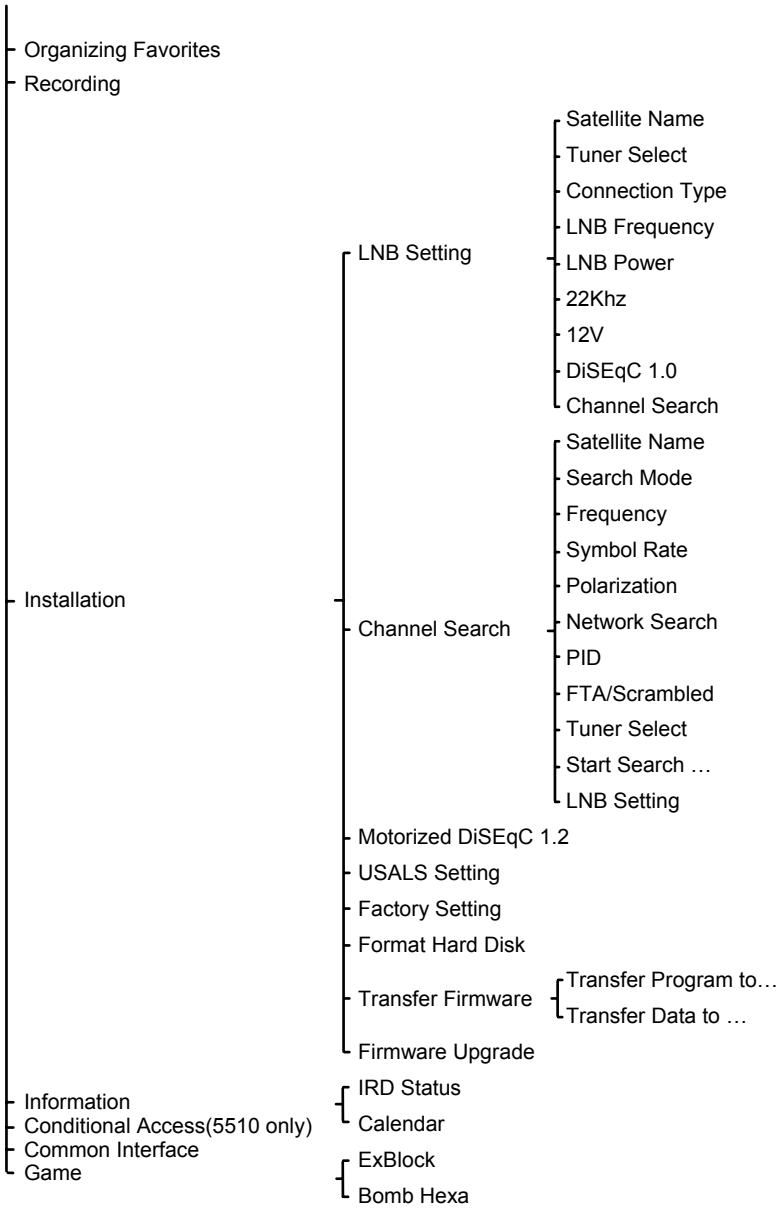
You can upload or download the **TAP**(Topfield Application Program), MP3 and the recorded services to or from your PC. You need to the **Altair.exe** to enjoy it.
You can download the **TFD-down.exe, TFDN_USB.exe, Altair.exe** at Topfield website **http://www. i-topfield.com**

The **TAP** application can be developed and used by users. The users can make their own functions by **TAP**. Topfield does not confirm the **TAP** developed by users, and does not have any responsibility.

MENU MAP


System Setting
Time Setting
Mode
Local Time
GMT
Time Offset
Time Format
GMT Collection
Satellite
Transponder
Timer Setting
Parental Control
Censorship
Change PIN Code
Access Control
Language Setting
Menu Language
Subtitle Language
Audio Language
A/V Output Setting
TV Type
Video Output
VCR SCART Type
TV Aspect Ratio
Display Format
Sound Mode
RF Output
RF Channel
MediaHighway EPG
MediaHighway EPG
Satellite Name
Home Transponder
Tuner Select
OSD Transparency
Info Box Display Time
Info Box Position
Organizing Channels

MENU MAP


Organizing Favorites
Recording
Installation
LNB Setting
Satellite Name
Tuner Select
Connection Type
LNB Frequency
LNB Power
22Khz
12V
DiSEqC 1.0
Channel Search
Channel Search
Satellite Name
Search Mode
Frequency
Symbol Rate
Polarization
Network Search
PID
FTA/Scrambled
Tuner Select
Start Search …
LNB Setting
Motorized DiSEqC 1.2
USALS Setting
Factory Setting
Format Hard Disk
Transfer Firmware
Transfer Program to…
Transfer Data to …
Firmware Upgrade
Information
IRD Status
Calendar
Conditional Access(5510 only)
Common Interface
Game
ExBlock
Bomb Hexa

SPECIFICATIONS

Tuner & Service Decoder

Item	Specification
2 Tuners	Decoding & recording(or decoding)
Input/Loop through Connector	75Ω,IEC 169-24, Female
Frequency Range	950 ~ 2150MHz
Signal Level Input	-65 ~ -25dBm
LNB Power & Polarisation	Vertical:+13.5VDC
	Horizontal:+18VDC
	Current:Max. 500mA
	Overload protection
22KHz Tone	Frequency:22±1KHz
	Amplitude:0.6±0.2V
DiSEqC Control	V1.0/1.1/1.2/1.3(USALS) compatible
Modulation	QPSK
Input Symbol Rate	1 ~ 45MS/s

MPEG Transport Stream A/V Decoding

Item	Specification
Transport Stream	ISO/IEC 13818-1 MPEG-2
Profile Level	2 x MPEG-2 MP@ML (PIP)
Aspect Ratio	4:3, 16:9, Pan & scan, Letterbox
Video Resolution	720 x 576
Audio Decoding	MPEG-1 Layer 1, 2 & 3

Main System

Item	Specification
Main Processor	MIPS
Memory	Flash-ROM: 2MB
	RAM: 64MB
	EEPROM: 2Kb
HDD	80GB, 120/160GB(optional)

Front Panel & RCU

Item	Specification
7 Keys	CH-/+, VOL-/+, MENU, OK, STANDBY
4-digit 7-segment LEDs (TF5010PVR)	Service number or Time display
VFD (TF5510PVR)	Service name and other information display
3 LEDs	TV/STB, REMOTE, STANDBY
RCU	46 Keys

Conditional Access Interface

Item	Specification
PCMCIA	2 slots DVB Common Interface Standard
Smart Card	Conax Embedded (5510 only)

A/V & Data In/Out

Item	Specification
TV-SCART	Video CVBS/S-VIDEO/RGB/YUV output
	Audio L/R output
VCR-SCART	Video CVBS output, Audio L/R output
	Video CVBS/S-VIDEO/RGB input bypass
	Audio L/R input bypass
S-VIDEO	Video S-VIDEO output
RCA A/V	Video CVBS output
	Audio L/R output
S/PDIF	Digital audio or Dolby AC-3 bitstream output
RS-232C	9 pin D-sub type
	Transfer rate 115.2Kbps
USB	USB2.0 Device

RF-Modulator

Item	**Specification**
RF-Connector	75 Ω, IEC 169-2, Female/Male
Output Service	CH21 ~ 69 (PAL)/CH3,4,14~83(NTSC)
TV standard	PAL G/I/K NTSC-M selectable by Menu

Power Supply

Item	Specification
Input Voltage	90 ~ 250VAC, 50/60Hz
Type	SMPS
Power Consumption	Running: Max. 55W, Standby: 8W
Protection	Separate internal fuse.

Physical Specification

Item	Specification
Size(W x H x D)	340 x 60 x 265 mm
Weight(Net)	4.2Kg

* Specifications and functions may be changed for improvement without notice in advance.